

Table 8: Tat

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
176 1.2	Tat(1-16)	Tat(2-17)	EPVDPRLIEWKHPGSQ?			
	References: [Ovod et al.(1994), Ranki et al.(1995)]					
	NOTES:					
	• 1.2: Weak expression of Tat observed in HIV+ brain tissue sample, in contrast to Nef [Ranki et al.(1995)]					
177 1D9D5	Tat(1-20 N-term)	Tat(2-21)	EPVDPRLIEWKHPGSQ-PKTA	rec HIV-1 tat A		murine(IgG ₁)
	References: [Mhashilkar et al.(1995), Valvatne et al.(1996)]					
	NOTES:					
	• 1D9D5: Single chain antibodies ("intrabodies") were engineered that can be stably expressed in the cytoplasm of mammalian cells – co-expression of an N-term "intrabody" can inhibit transactivation of an HIV LTR-CAT construct and block import into nucleus, but "intrabody" specific for exon 2 did not inhibit activity [Mhashilkar et al.(1995)]					
	• 1D9D5: Exogenously delivered Tat can efficiently transactivate an HIV-LTR-CAT construct in HeLa cells in the presence of 1D9D5, suggesting when considered with the results of [Mhashilkar et al.(1995)], that free Tat and not Ab bound is taken up by cells [Valvatne et al.(1996)]					
178 NT3/2D1.1	Tat(2-15 N-term)	Tat(2-15)	EPVDPNLEPWNHPS	Peptide tat(2-15)		murine(IgG ₁ a)
	References: [Dingwall et al.(1989)]					
	NOTES:					
	• NT3/2D1.1: Immunoprecipitates and immunoblots HIV-1 tat protein [Dingwall et al.(1989)]					
	• NT3/2D1.1: UK Medical Research Council AIDS reagent: ARP352					
179 1D2F11	Tat(49-86 C-term)	Tat(49-86) ??	RKKRRQRRRPPQQGSQ-THQVSLSKQPTSQSR-GDPTGPKE	full length purified rec tat A		murine(IgG ₁)
	References: [Valvatne et al.(1996)]					
	NOTES:					
	• 1D2F11: MAb did not bind shorter peptides – this Mab inhibited exogenously delivered Tat transactivation of an HIV-LTR-CAT construct in HeLa cells by inhibition of cellular uptake of Tat [Valvatne et al.(1996)]					

HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
180 4B4C4	Tat(49-86 C-term)	Tat(49-86)?	RKKRRQRRRPPQQGSQ-THQVSLSKQPTSQSR-GDPTGPKE	full length purified rec tat A	murine(IgG1)	
						References: [Valvatne et al.(1996), Jensen et al.(1997)]
						NOTES: <ul style="list-style-type: none">• 4B4C4: Also called 4B4• 4B4C4: MAb did not bind shorter peptides – this Mab inhibited exogenously delivered Tat transactivation of an HIV-LTR-CAT construct in HeLa cells by inhibition of cellular uptake of Tat [Valvatne et al.(1996)]
181 2D9E7	Tat(49-86 C-term)	Tat(49-86) ??	RKKRRQRRRPPQQGSQ-THQVSLSKQPTSQSR-GDPTGPKE	full length purified rec tat A	murine(IgG1)	
						References: [Valvatne et al.(1996)]
						NOTES: <ul style="list-style-type: none">• 2D9E7: MAb did not bind shorter peptides – this Mab inhibited exogenously delivered Tat transactivation of an HIV-LTR-CAT construct in HeLa cells by inhibition of cellular uptake of Tat, but less efficiently than MAbs 1D2F11 or 4B4C4 [Valvatne et al.(1996)]
182 5G7D8	Tat(49-86 C-term)	Tat(49-86) ??	RKKRRQRRRPPQQGSQ-THQVSLSKQPTSQSR-GDPTGPKE	full length purified rec tat A	murine(IgG1)	
						References: [Valvatne et al.(1996)]
						NOTES: <ul style="list-style-type: none">• 5G7D8: MAb did not bind shorter peptides – this Mab inhibited exogenously delivered Tat transactivation of an HIV-LTR-CAT construct in HeLa cells by inhibition of cellular uptake of Tat, but less efficiently than 1D2F11 or 4B4C4 [Valvatne et al.(1996)]
183 NT2/4D5.24	Tat(C-term 73-86)	Tat(73-86)	PTSQPRGDPTGPKE	Peptide Tat(73-86)	murine(unk)	
						References: [Dingwall et al.(1989)]
						NOTES: <ul style="list-style-type: none">• NT2/4D5.24: Immunoprecipitates and immunoblots HIV-1 tat protein [Dingwall et al.(1989)]

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isootype)
184 2D9D5	Tat(C-term)	Tat		purified, recombinant		murine(IgG)
				HIV-1 Tat		

References: [Mhashilkar et al.(1995)]

NOTES:

- 2D9D5: Single chain antibodies ("intrabodies") were engineered that can be stably expressed in the cytoplasm of mammalian cells – co-expression of C-term "intrabody" did not inhibit transactivation of an HIV LTR-CAT construct, in contrast to MAb 1D9D5 [Mhashilkar et al.(1995)]

185 L-anti-Tat	Tat(unk)	Tat	L P (when lipidated)	rec Tat	murine(IgG1)

Donor: AGMED, Inc., Bedford, MA USA

References: [Cruikshank et al.(1997)]

NOTES:

- L-anti-Tat: Lipidated antibody can be taken up by cells and effectively block IIIIB and primary virus HIV-1 replication in actively and latently infected cells [Cruikshank et al.(1997)]